

INTEROFFICE MEMORANDUM

DATE: March 16, 1992

FILE: 961.432

TO: Ted Bittner

FROM: Boyd Rogers

SUBJECT: Rocky flats Solar Pond/Pondcrete
Stabilization Project
Brown & Root Job No: JR-1198

REFERENCE: Pondsludge Casting Station
Process Operation Times

The following process operation times are based on the materials handling study, dated June 13, 1992:

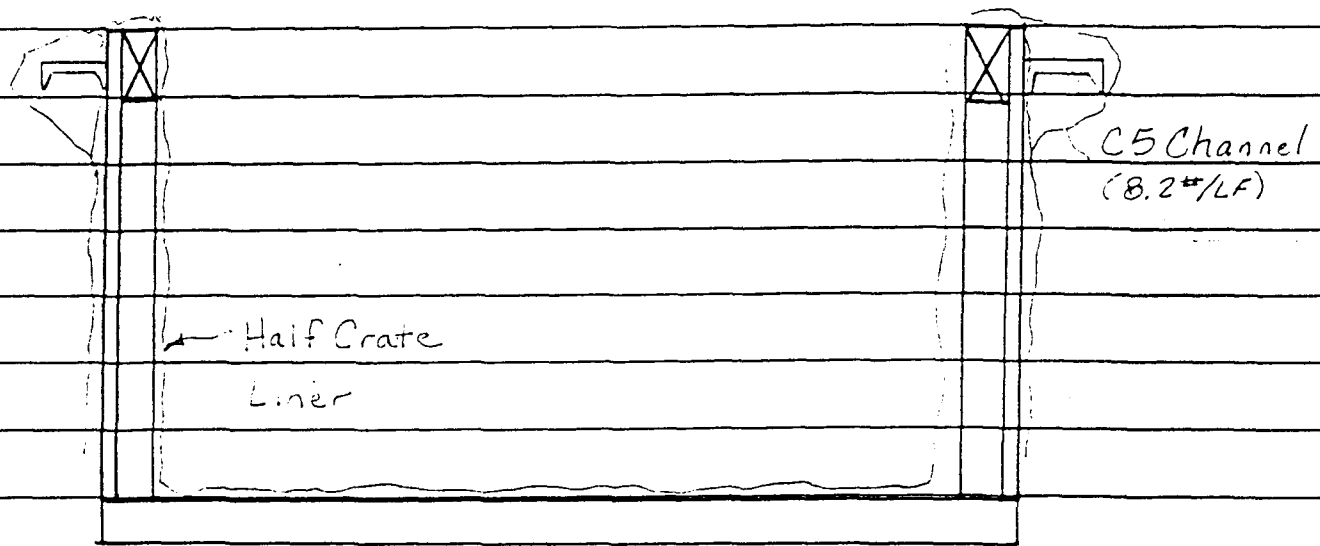
Fill Half Crate	8 to 9 minutes (based on 9.6 half crates per hour)
Fill Half Crate	13 to 17 minutes (based on 4 half crates per hour)
Place lids and bands	2 to 6 minutes (placement of both fiberglass and plywood lids)
Label Half Crate	0.5 to 1.5 minutes
Visual Inspection	0.5 to 1.0 minutes
Smear Test	5 to 20 minutes
Half Crate Cleaning	5 to 15 minutes

Please note the visual inspection and smear test take place at the same station, with two stations provided.

cc: Larry O'Quinn
John Zak

cc:

Half Crate Temporary Support System



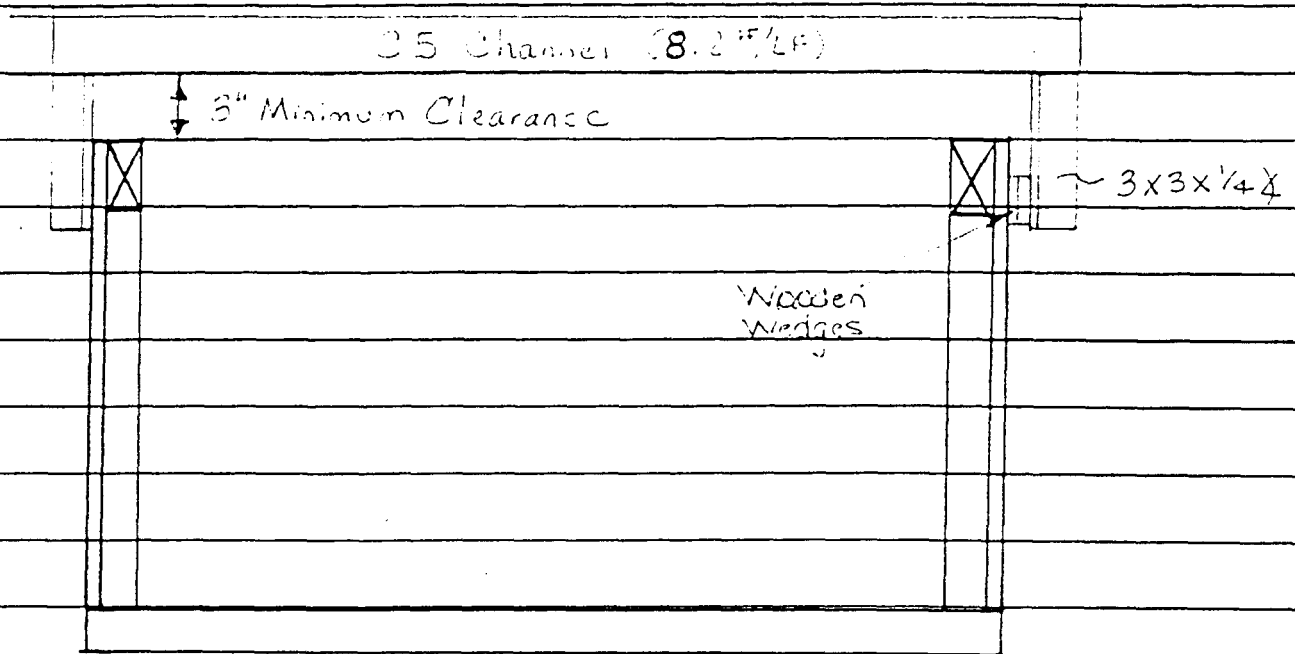
Temporary Support

1) System is put in place prior to placing liner in half crate. Bag goes over wire.

2) Channels are secured with turnbuckle to secure system. (One turnbuckle required on one end— Other end has $3 \times 3 \times \frac{1}{4}$ Angle bolted to each channel.

3 of 4

Half Crate Temporary Support System



Total Weight of Support - $\leq 60^{\#}$

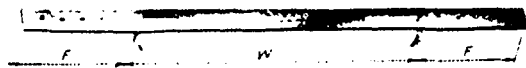
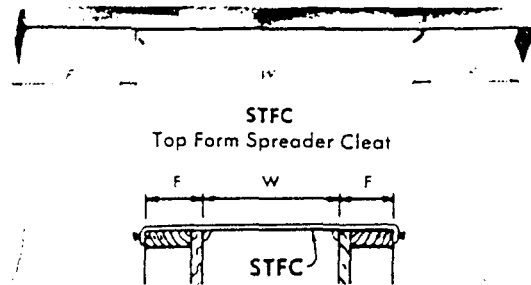
Temporary Support

- 1) One required at midpoint of 7 foot dimension.
- 2) System must remain in place until lid is secured to box or 24 hours after testing.
- 3) Lid is slipped between support & top of box.

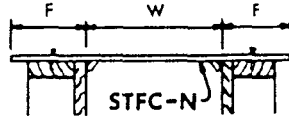
TOP FORM SPREADER CLEAT (STFC)

The Top Form Spreader Cleat consists of a $\frac{3}{16}$ " x $1\frac{1}{8}$ " steel strap with die cut spreader lugs accurately located to spread the form. The ends are turned down to grip the outside faces of the studs, top plate or sheathing as desired. The use of these cleats often eliminates a row of internal ties.

TO ORDER, give "F" x "W" x "F" dimensions, symbol and name.



STFC-N
Top Form Spreader Cleat



TOP FORM SPREADER CLEAT (STFC-N) (NAILER TYPE)

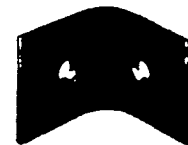
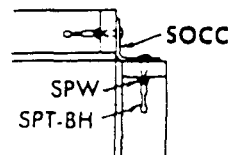
The Nailer Type, Top Form Spreader Cleat is constructed the same as the standard type above except for the turned down ends. Four spaced nail holes are provided at each end to permit nailing to top plates of varying widths.

TO ORDER, give "F" x "W" x "F" dimensions, symbol and name.

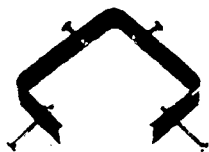
OUTSIDE CORNER CLIP (SOCC)

The Outside Corner Clip is made of $\frac{1}{4}$ " x 3" steel plate bent around a 1" radius to a 90° angle. Designed to work with one of the panel ties and a Panel Wedge to hold the outside corner of a panel form. The large radius bend permits the use of a $\frac{3}{4}$ " chamfer strip in the corner to prevent grout leakage. Available black or galvanized.

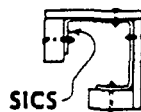
TO ORDER, give symbol and name.



SOCC
Outside Corner Clip



SICS
Inside Corner Strap



INSIDE CORNER STRAP (SICS)

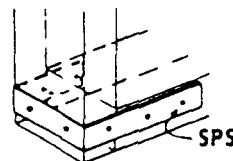
The Inside Corner Strap is made of $\frac{1}{4}$ " x $1\frac{1}{4}$ " steel strap with four $\frac{5}{16}$ " holes. Two $\frac{1}{4}$ " x $1\frac{1}{4}$ " and two $\frac{1}{4}$ " x $2\frac{1}{4}$ " carriage bolts are supplied with each strap for bolting to plywood and studs respectively. Available black or galvanized.

TO ORDER, give symbol and name.

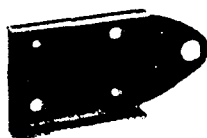
PANEL STRAP (SPS) (GALVANIZED)

The Panel Strap is made of 1" x 20 gauge galvanized steel strap, punched with $\frac{1}{8}$ " diameter holes to permit nailing to studs. Use of these straps controls racking and twisting of the panels as they are stripped and thus prolongs the life of the lumber.

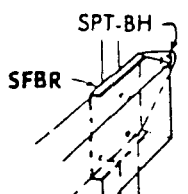
TO ORDER, give symbol and name.



SPS
Panel Strap



SFBR
Form Brace



FORM BRACE (SFBR)

The Form Brace consists of a die cut $\frac{1}{8}$ " steel plate with bent flanges to grip the edges of a 2" x 4" or 4" x 4" brace and is provided with holes for nailing. A $\frac{1}{16}$ " hole in the extended portion permits the passage of either the Panel-Ty or Button Head Panel-Ty used to tie the panels together. Nailing and consequent damage to panels and bracing lumber is eliminated. Available black or galvanized.

TO ORDER, give symbol and name.